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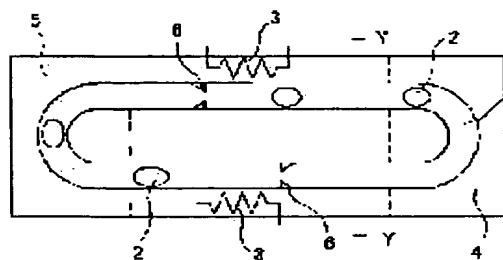
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(54) THIN LOOPED HEAT PIPE AND TEMPERATURE CONTROL APPARATUS COMPRISING IT

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a thin looped heat pipe in which lowering of heat transport capacity incident to thinning of heat pipe is improved and heat transport can be controlled stably.

SOLUTION: The thin looped heat pipe comprising a radiating section 4 for mounting a cooling mechanism and a heat receiving section 5 for mounting an object subjected to temperature control and arranged to circulate liquid through a channel 1 between the radiating section 4 and the heat receiving section 5 is further provided with at least one channel control valve 6 formed to exhibit a different channel resistance depending on the flowing direction of liquid, a member 3 for heating the liquid in the



channel 1 disposed in correspondence with the channel control valve 6, and a thermal pump system which can regulate the heating amount and heating timing of the heating member 3 into a desired state.